CLAIMS

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1. A terminal apparatus connected to a network and configured to perform an operation, the terminal apparatus comprising:

a packet volume detecting unit configured
10 to detect the number of packets received from the network in a predetermined time; and

a logical disconnecting unit configured to logically disconnect the terminal apparatus from the network when the number of packets detected by the
15 packet volume detecting unit exceeds a predetermined value.

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2. The terminal apparatus according to claim 1, wherein

said packet volume detecting unit detects the number of only those broadcast packets among
25 packets received by said terminal apparatus, and

said logical disconnecting unit logically disconnects the terminal apparatus from the network when the number of broadcast packets received in a predetermined time exceeds a predetermined value.
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3. The terminal apparatus according to claim 1 or 2, further including:

a reconnecting unit configured to reconnect said terminal apparatus to said network after a
5   predetermined return time has elapsed since said terminal apparatus is disconnected form said network by said logical disconnecting unit.

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4. The terminal apparatus according to claim 3, wherein

said reconnecting unit increases the length
15   of said return time longer than that of said return time in a previous disconnection when said terminal apparatus is disconnected again after the reconnection.

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5. The terminal apparatus according to claim 1 or 2, including:
25   an operation inputting device for inputting a connection order for connecting said terminal apparatus to said network.

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6. The terminal apparatus according to claim 1 or 2, including:

a display device for displaying the fact that said terminal apparatus is disconnected.

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7. The terminal apparatus according to claim 1 or 2, further including:

a unit for storing history information about disconnection and reconnection of said terminal apparatus; and

a display device for displaying the history information.

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8. The terminal apparatus according to any one of claims 1 to 7, wherein

said packet volume detecting unit does not detect said number of packets when the terminal apparatus is logically disconnected from said network.

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9. The terminal apparatus according to any one of claims 1 to 8, including:

a first changing unit configured to change said predetermined value in accordance with processing contents required via said network.

10. The terminal apparatus according to claim 9, wherein

said first changing unit changes said predetermined value in accordance with a transition of said processing contents required via said network.

11. The terminal apparatus according to any one of claims 1 to 10, including:

a second changing unit configured to change said predetermined value in accordance with a status of said network.

12. A control method of a terminal apparatus connected to a network and configured to perform an operation, the control method of a terminal apparatus comprising the steps of:

detecting the number of packets received from the network in a predetermined time; and

logically disconnecting the terminal apparatus from the network when the detected number of packets exceeds a predetermined value.

13. A computer-readable program for causing a computer to perform the control method of a terminal apparatus according to claim 12.

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14. A computer-readable recording medium in which the computer-readable program according to

10 claim 13 is recorded.

15 15. A network system including a plurality of terminal apparatuses connected to a network, each terminal apparatus comprising:
a packet volume detecting unit configured to detect the number of packets received from the

20 network in a predetermined time; and
a logical disconnecting unit configured to logically disconnect the terminal apparatus from the network when the number of packets detected by the packet volume detecting unit exceeds a predetermined

25 value.

30 16. A control method of a network system including a plurality of terminal apparatuses connected to a network, the control method of a network system comprising the steps of:

detecting, in each terminal apparatus, the number of packets received from the network in a predetermined time; and

5 logically disconnecting a corresponding terminal apparatus from the network when the detected number of packets exceeds a predetermined value.

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17. A computer-readable program for causing a computer to perform the control method of a network system according to claim 16.

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18. A computer-readable recording medium in which the computer-readable program according to 20 claim 17 is recorded.